What does this do?

This project will predict your chance of winning a hackathon by analyzing the description of your Devpost. By our analysis, average probability of winning a hackathon is only 7%. However, evidence shows that by adding keywords, chance of winning can be increased to 40%.

How do we achieve this.?

We scraped around 10,000 hackathon projects from DevPost and analyze the descriptions of those projects using TFIDF and Logarithmic Regression to analyze what keyboards do these descriptions have in common. TFIDF worked by converting each keyword to the vector of 300 dimensions representing the relationships with other words, then it counted the frequency of keywords in each documents and weight them on the occurrences in all the documents. By applying Logarithmic Regression on those, we achieved the accuracy of 91%.

Why?

By implementing our own TFIDF and Logarithmic Regression model, we realized that there were a lot of implications for this technique such as classifying whether news is fake or biased.

Forward?

By seeing what the power of Machine Learning can do, it really changed our perceptions of AI. We really see AI as a way to enhance human’s experience and allow us to understand the relationships between different factors like never before.

Stack:

Scikit-learn, React, Node.JS